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birds and reptiles, most of them coming from regions not visited by the previous expedition, while some are from remote localities never before visited by naturalists. After the completion of his studies in Europe, Mr. Heller will return to Washington, to complete his report on the mammals of British East Africa.

THE PACIFIC ASSOCIATION OF SCIENTIFIC SOCIETIES

THE second annual meeting of the Pacific Association of Scientific Societies will be held at Stanford University on April 4, 5, 6, 1912. Sessions will be held this year on one or more of the above days by the following eight societies:

The Technical Society of the Pacific Coast.

The Cordilleran Section of the Geological Society of America.

The Seismological Society of America.

Pacific Coast Branch of the American Historical Association.

The Pacific Slope Association of Economic Entomologists.

Pacific Paleontological Society.

The Biological Society of the Pacific.

The California Section of the American Chemical Society.

There will also meet with the Association the LeConte Club and the Mathematical Society of the Pacific Coast.

Friday evening will be used generally for dinners and banquets, and on Saturday evening will be held the general session of the association. President Jordan will give the address of welcome, and among the readers of papers will be Professor A. C. Lawson, University of California, Professor George Hempl, Stanford University, and Director W. W. Campbell, of the Lick Observatory.

The Pacific Association of Scientific Societies was organized in 1910 "to promote co-operation among the constituent societies." It is to make possible the getting together of a number of smaller isolated societies annually at the same time and place. The administrative machinery of the association is an Executive Committee composed of the presidents and secretaries, or their representatives, of the constituent societies. The principal business of this committee is to suggest

time and place of meeting and make arrangements for such meetings.

Nine Coast Societies became members the first year:

The Technical Society of the Pacific coast.

The Cordilleran Section of the Geological Society of America.

The Seismological Society of America.

Pacific Coast Branch of the American Historical Association.

The Pacific Slope Association of Economic Entomologists.

Pacific Coast Paleontological Society.

The Philological Society of the Pacific Coast.

The Cooper Ornithological Club.

California Academy of Sciences.

The second year two more societies became members:

The Biological Society of the Pacific.

The California Section of the American Chemical Society.

The present officers of the association are:

Chairman of the Executive Committee, Mr. Otto von Geldern.

Vice-chairman, Professor George D. Louderback.

Secretary-treasurer, Professor J. N. Bowman.

The first meeting of the association was held at the University of California on March 31-April 1, 1911. The different societies accepting the suggested time and place, held their sessions on the campus; on Saturday evening the general session of the association convened in California Hall. At this session addresses and papers were given by Chairman Otto von Geldern, President Benjamin Ide Wheeler, President David Starr Jordan, Professor Vernon Kellogg, Mr. George W. Dickie and Professor Bernard Moses. The same general plan will be followed this year at the second annual meeting at Stanford University. The work of the various secretaries is greatly facilitated by the committee on arrangements appointed by President Jordan and composed of Professors Townley, Heath and Burlingame.

SCIENTIFIC NOTES AND NEWS

MR. SAMUEL HENSHAW has been appointed director of the Museum of Comparative Zoology of Harvard University.

PROFESSOR CHARLES JAMES, of New Hampshire College, has been awarded the Nichols medal of the American Chemical Society.

DR. A. E. ORTMANN, curator of invertebrate zoology, Carnegie Museum, and professor of physical geography, University of Pittsburgh, has been elected a member of the Halle Academy of Sciences.

MR. GUGLIELMO MARCONI has been appointed a life senator by the Italian government.

THE following fifteen candidates have been selected by the council of the Royal Society to be recommended for election into the society: Professor J. O. Arnold, Professor C. G. Barkla, Mr. L. Cockayne, Mr. A. L. Dixon, Sir T. L. Heath, Dr. H. O. Jones, Professor T. R. Lyle, Dr. W. McDougall, Mr. R. Messel, Professor B. Moore, Mr. E. Nettleship, Mr. R. Newstead, Vice-Admiral Sir H. J. Oram, Dr. G. T. Prior and Mr. R. C. Punnett.

THE following have been appointed members of the American Commission on Inorganic Nomenclature of Chemistry, to cooperate with similar national bodies of other countries: Jas. Lewis Howe, of Washington and Lee University, chairman; P. E. Browning, of Yale; E. C. Franklin, of the Hygienic Laboratory, Washington; A. M. Patterson, Xenia, O.; Chas. H. Herty, of the University of North Carolina; Owen Shinn, of the University of Pennsylvania, and Adolf Law Voge, of the Library of Congress.

AT its last meeting the Rumford committee of the American Academy of Arts and Sciences granted the sum of \$250 additional to a former appropriation to Professor Gilbert N. Lewis, of the Massachusetts Institute of Technology, in aid of his research upon the free energy changes in chemical reactions.

RECENT appointments to the research staff of the Otho S. A. Sprague Memorial Institute, Chicago, are Dr. Lydia M. DeWitt, formerly of the department of anatomy at the University of Michigan, and more recently of the health department of the city of St. Louis, and Dr. Samuel Amberg, of the department of pediatrics at Johns Hopkins Medical School.

DR. R. RAMSAY WRIGHT, vice-president of the University of Toronto and dean of the faculty of arts, will retire from active service on September 30. He has filled the chair of biology for the last thirty-eight years.

PROFESSOR EDWARD HICKING JACKSON, professor of orthopedic surgery at the Harvard Medical School, and Professor James Jackson Putnam, professor of diseases of the nervous system, have retired from active service and will be given the title of professor emeritus.

MR. N. E. DORSEY, Ph.D. (Hopkins, 1897), associate physicist in the U. S. Bureau of Standards, has been appointed research associate in the department of terrestrial magnetism of the Carnegie Institution of Washington.

DR. GEORGE A. HULETT, professor of physical chemistry, at Princeton University, has received leave of absence for the academic year 1912-13, in order that he may accept, for the year, the post of chief chemist in the U. S. Bureau of Mines.

MISS MARGARET HARWOOD, of the Harvard College Observatory, has been appointed to the astronomical fellowship of the Nantucket Maria Mitchell Association.

PROFESSOR W. BALDWIN SPENCER, F.R.S., has been appointed protector of the aborigines in the northern territory of Australia.

DR. SCHLAGINHAUFER has been chosen as the successor of Dr. R. Martin at the head of the Anthropological Institute, Zurich.

DR. W. J. HOLLAND, director of the Carnegie Institute, Pittsburgh, has been appointed by the Entomological Society of London to represent it at the centenary of the Academy of Natural Sciences of Philadelphia.

DR. A. HRDLICKA has been designated as the representative of the Smithsonian Institution at the eighteenth International Congress of Americanists, to be held at London from May 27 to June 1, 1912. Dr. Hrdlicka has also been accredited as a delegate to the congress on the part of the United States.

DR. C. H. EIGENMANN, curator of ichthyology at the Carnegie Museum, reports himself

as highly successful in his exploration of the Rio Magdalena and the Rio Atrato, in which he is making large collections of fishes for the museum.

MRS. T. D. A. COCKERELL has just returned from Guatemala, where she collected both in the mountains and in the tropical lowlands, and obtained a large collection of bees and other insects, as well as some reptiles, fishes, plants, etc.

DR. LOUISE B. WALLACE, associate professor of zoology at Mt. Holyoke College, has been granted two years leave of absence to take charge of the biological department in the American College for Girls in Constantinople.

DR. MAX BORN, of the University of Göttingen, is to lecture on relativity during the summer quarter at the University of Chicago. The course is to continue throughout the entire quarter.

PRESIDENT F. P. VENABLE, of the University of North Carolina, lectured before the Chemical Society of Washington and Lee University on March 1, on "The Value of Chemical Research."

DR. M. P. RAVENEL, of the department of bacteriology of the University of Wisconsin, is delivering a series of six lectures before the Milwaukee Medical Society on "Studies in Immunity, Vaccine and Serum Therapy."

PROFESSOR LAFAYETTE B. MENDEL, of the Sheffield Scientific School of Yale University, lectured before the students of Mt. Holyoke College on March 2, on "Changing Views on Nutrition."

At a meeting of the Geographical Society of Chicago on March 8, a lecture was given by Mr. Alfred H. Brooks of the U. S. Geological Survey, the title of the lecture being "Geography of Alaska."

PROFESSOR J. G. D. MACK, the exchange lecturer from the University of Wisconsin, gave two lectures before the students and faculty of the College of Engineering of the University of Illinois on February 29. One lecture was on the engineering features of the Wisconsin Tax and Public Utilities Com-

missions. Professor Mack is a member of the engineering staff of these commissions. The second lecture was on some features of ancient engineering work and their relations to present-day practise, and was, in part, an appeal to engineering students to study the history of engineering as well as current practise.

DR. LYNDY JONES, associate professor of animal ecology in Oberlin College, lectured recently before the undergraduates in Spear Laboratory upon "The Winter Birds of Ohio." From now on to the end of the college year Dr. Jones is offering a seminar in practical field work in ornithology which has been elected by about ten advanced students.

DR. JOHN BERNHARDT SMITH, state entomologist of New Jersey and professor of entomology at Rutgers College, eminent for his contributions to entomology, died on March 12, aged fifty-four years.

PROFESSOR MASON BLANCHARD THOMAS, B.S. Cornell '90, Ph.D. '07, professor of botany at Wabash college since 1891, and dean of the faculty since 1907, died at Crawfordsville, Ind., on March 6, aged forty-six years.

DR. SAMUEL AUGHEY died in Spokane, Washington, on February 3, 1912, at the age of eighty-one. He was a graduate of Pennsylvania College, Gettysburg, and of the Theological Seminary of the same place. After some years in the ministry, during which time he moved with his family to Nebraska and soon became noted as an enthusiastic naturalist, he was elected to the chair of natural science in the newly established State University of Nebraska, where he remained for thirteen years. On severing his connection with the university, he devoted himself more especially to geology and the practical work of the mining expert. Among his publications are "A Catalogue of the Flora of Nebraska" (1875); "Physical Geography and Geology of Nebraska" (1880); "Geological Report on the Wyoming Oil Basins" (1881), etc.

PROFESSOR OSBORNE REYNOLDS, the distinguished engineer and physicist, for many years professor at the Owens College, died on February 21, aged seventy years.

SIR JOHN G. N. ALLEYNE, Bt., known as an authority in engineering and for his interest in iron and steel research, has died in his ninety-second year.

DR. A. H. YOUNG, emeritus professor of anatomy in the University of Manchester, died on February 22.

PROFESSOR RICHARD ANDRÉE, of Leipzig, known for his work in geography and ethnography, has died at the age of seventy-seven years.

THERE is existing a vacancy in the position of chief engineer, Indian Irrigation Service, at a salary of \$4,000 per annum. The requirements of the position are technical in their nature, the work having to do with the planning and construction of all the irrigation work under the control of the Office of Indian Affairs. The government is endeavoring to find the best man available for this work, and has no particular individual in view. The qualifications and fitness for this position, based upon education, training and experience in the design and construction of engineering works, will be determined by a board of experienced engineers. Qualified persons who are interested in this position are invited to communicate with the U. S. Civil Service Commission, Washington, D. C. The commission also announces a vacancy in the position of research bacteriologist in the biological laboratory of the Bureau of Science, Manila, Philippine Islands, at a salary of \$2,500 a year. This position is for a research bacteriologist with clinical experience, and applicants must be graduates in medicine; in addition they must show that they have specialized extensively in bacteriology and are capable of doing original research work. The work comprises investigations in tropical medicine in conjunction with the chief of the biological laboratory, who is also professor of tropical medicine in the College of Medicine and Surgery. The clinical material of the Philippine General Hospital and the hospital of the government prison will be available for study in connection with bacteriological investigation. It is stated by the Bureau of Science that opportunities exist for promotion

to higher places as vacancies occur, and at present there are six positions in this laboratory above the one in question, at salaries ranging from \$2,500 to \$5,000 a year. The library of the Bureau of Science and the equipment are of the very best and strictly modern, so that this position offers a unique opportunity for a young man who is ambitious to do research work.

THE treasurer of Columbia University has reported to the trustees that he had received about \$1,550,000 from the executors of the estate of the late George Crocker. Accordingly, the work of cancer research, for which Mr. Crocker gave this sum as an endowment, will begin at once. The research fund will be intrusted for administration to a board of managers, to consist of Mr. Rives, Dr. Cheesman and President Butler from the trustees, and Dean Lambert, Professors Janeway and MacCallum, of the medical faculty, together with a director of Cancer Research to be appointed.

THE Scripps Institution for Biological Research at San Diego is about to be made a part of the University of California. It was built up through the aid of Miss Ellen B. Scripps and Mr. E. W. Scripps. Control, heretofore in the hands of the San Diego Marine Biological Association, will be delegated by the University to Miss Ellen B. Scripps, Mr. E. W. Scripps, President Benjamin Ide Wheeler, of the university, and Dr. William E. Ritter, professor of zoology and director of the Scripps institution.

UNIVERSITY AND EDUCATIONAL NEWS

THE Brown University endowment fund has received a gift of \$10,000 from Mr. J. B. F. Herreshoff, an alumnus, vice-president of the Nichols Chemical Company of New York. This makes \$762,417 towards the million dollar fund.

THE budget of Columbia University calls for the expenditure of \$3,159,730.28 during the year beginning July 1. It is estimated that the income for the same period will fall short of meeting the expenditure by \$132,000, de-